**Lesson Plan~The Academy for Technology & the Classics~Cultivating Fearless Learners**

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| **Instructor’s name: Shain, Gotcher, Bryant** | **Course/Grade: Assistive Reading/Math 7th grade** |
| **Week of: 12/14-12/17** **Semester finals** | **Unit Name:** Using logical reasoning to solve multi-step, real life word problems, working with integers: single-step equations and two-step equations, building vocabulary of Additive Inverse and Multiplicative Inverse. Reading comprehension of readings from Achieving The Core: discussing summary of main idea, comprehension questions, building vocabulary, writing “perfect paragraphs” using the 1,2,3 format. |

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| ***(1A)\**Essential Question(s):** **MATH:** **Tuesdays & Thursdays**How to use logic reasoning to solve a multi-step real-life mathematical problem and generate a sample problem on your own?How to solve a single-step equation using the additive or multiplicative inverse?**READING**: **Monday, Wednesday and Fridays**They will be reading a short story from “Achieving the Core-Fluency Packet for 6-8th grade “practicing for accuracy and fluency. Students will answer text-based questions and expand vocabulary to support and build understanding of text, creating a “perfect paragraph” using the 1,2,3 format. | ***(1A/1B)* Connections (prior/future learning): Prior learning and practice working through word problem, working problems using integers-using the additive inverse and multiplicative inverse, utilizing word problem programs such as Empires, Khan Academy and Mid-school math.****Prior learning of decoding, inferring and synthesizing meaning from text based questions to clarify, build understanding and develop a thesis statements supported by quotes from reading, using the “perfect paragraph” format (1,2,3)** |
| ***(1A)* Common Core/State Standards: The Number System 7.NS**1. Apply and extend previous understandings of operations withfractions to add, subtract, multiply, and divide rational numbers.2. Apply and extend previous understandings of multiplication anddivision and of fractions to multiply and divide rational numbers.3. Use proportional relationships to solve multi-step ratio and percentproblems. Examples: simple interest, tax, markups and markdowns,gratuities and commissions, fees, percent increase and decrease, percenterror.Expressions and Equations 7.EEUse properties of operations to generate equivalent expressions.1. Apply properties of operations as strategies to add, subtract, factor,and expand linear expressions with rational coefficients.2. Understand that rewriting an expression in different forms in aproblem context can shed light on the problem and how the quantitiesin it are related. Solve real-life and mathematical problems using numerical andalgebraic expressions and equations.3. Solve multi-step real-life and mathematical problems posed withpositive and negative rational numbers in any form (whole numbers,fractions, and decimals), using tools strategically. Apply properties ofoperations to calculate with numbers in any form; convert betweenforms as appropriate; and assess the reasonableness of answers usingmental computation and estimation strategies. 4. Use variables to represent quantities in a real-world or mathematicalproblem, and construct simple equations and inequalities to solveproblems by reasoning about the quantities.a. Solve word problems leading to equations of the form px + q = rand p(x + q) = r, where p, q, and r are specific rational numbers.Solve equations of these forms fluently. Compare an algebraicsolution to an arithmetic solution, identifying the sequence of theoperations used in each approach.  ELA - Key Ideas and Details1. Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textualevidence when writing or speaking to support conclusions drawn from the text.2. Determine central ideas or themes of a text and analyze their development; summarize the key supporting detailsand ideas.3. Analyze how and why individuals, events, and ideas develop and interact over the course of a text.Craft and Structure4. Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurativemeanings, and analyze how specific word choices shape meaning or tone.5. Analyze the structure of texts, including how specific sentences, paragraphs, and larger portions of the text(e.g., a section, chapter, scene, or stanza) relate to each other and the whole.6. Assess how point of view or purpose shapes the content and style of a text.Integration of Knowledge and Ideas7. Integrate and evaluate content presented in diverse formats and media, including visually and quantitatively, aswell as in words.\*8. Delineate and evaluate the argument and specific claims in a text, including the validity of the reasoning as well asthe relevance and sufficiency of the evidence.9. Analyze how two or more texts address similar themes or topics in order to build knowledge or to compare theapproaches the authors take.Range of Reading and Level of Text Complexity10. Read and comprehend complex literary and informational texts independently and proficiently. |
| ***(1E)* Other considerations (modifications, accommodations, acceleration, ELL, etc.****All accommodations and modifications indicated in student IEPs will be followed. Any needs of ELL students (modification of assignment length, modification of assignment complexity, modification of source reading, etc.) will be implemented.** | ***(1D)* Resources/Materials:** **Chromebooks, Grade-level reading comprehension material, math maps, Khan Academy, Empires, Mid-School Math, Kuta Software, Graphic Organizers, Fray Square Templates, Manipulatives, flash cards and math drill games, Math Problem Solver Program “Math Journaling”****Achieve the Core short story excerpts, and other selected short stories designed for building fluency, comprehension, vocabulary and understanding of the main idea by answering text-based questions. Students will formulate 3-5 paragraph papers explaining their understanding of the excerpts. Building on prior learning of decoding, inferring and synthesizing meaning from text based questions to clarify, build understanding and develop a thesis statements supported by quotes from reading, using the “perfect paragraph” format (1,2,3)** |
| ***(1F)* Assessment (How will you monitor progress and know students have successfully met outcomes? What happens when students understand and when they don’t understand? Checking for understanding, clarifying, using simplified and/or repeated directions, re-teaching, small group instruction****Daily: Vocabulary Review, Writing 3-5 Paragraph papers using the “perfect paragraph format-1,2,3”, Writing- Revisions, Reading Comprehension, Multiple choice practice, Math Drills, Khan Academy, Empires, creating math maps, creating flash cards, Solving word problems in addition to student created word problems****This Week: Writing Perfect Paragraph papers using the (1,2,3 format), Writing- Revisions, Reading Comprehension, Math Solver Program-Solving word problems-student created word problems, students reviewing and practicing work with integers and single-step and two step equations.** |

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| MONDAY- Reading/Writing ***(1C)* Learning Target:** **Making multiplication drill cards for final review*****(1C)* Do Now: Math fact drills (not mastered yet)** |  (***1F)*Embedded Formative Assessment: Developing an understanding of math facts for automation of foundational math skills needed for Pre-Algebra.*****(1B)*Closing Activity: Following directions** |
| TUESDAY- Math***(1C)* Students will be creating their own Multiplication Flash cards as part of a Quarter 2 project grade*****(1C)* Learning Target: Students will demonstrate the knowledge of multiplication facts in order to better prepare for their Pre-Algebra finals and assist with multiplication fact automation. Students will create their own multiplication facts individually and work collectively as a group to assist with automation** ***(1C)* Do Now: Math Brain teaser** | ***1F)*Embedded Formative Assessment: Successful creating of multiplication facts 1’s-12’s****Closing Activity: Students will drill eachother to practice automation of math facts****Rubric-Rate how successful you were at accomplishing multiplication facts based on a self-evaluation rubric*****(1B)*Students will play Around the World as an exit strategy** |
| WEDNESDAY- Reading/Writing***(1C)* Learning Target : Constructed Response*****(1C)* Do Now:**  |  (***1F)*Embedded Formative Assessment:** ***(1B)*Closing Activity:**  |
| THURSDAY-MATH***(1C)* Learning Target: Objective Response*****(1C)* Do Now: Math Drills whole class 12’s** | (***1F)*Embedded Formative Assessment:**  ***(1B)*Closing Activity: (Ticket out) Self-reflection based on provided rubric** |
| FRIDAY-No School | **(*1F)*Embedded Formative Assessment:** ***(1B)*Closing Activity:**  |

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| \*Refers to NMTEACH Rubric:1A-Demonstrating knowledge of content1B-Designing coherent instruction1C-Setting Instructional outcomes1D-Demonstrating knowledge of resources1E-Demonstrating knowledge of students1F-Designing student assessment | Formative Assessment includes, but is not limited to:Exit tickets, white board response, consensagrams, red/green cards, formal or informal student conferences, sticky note assessment.  |